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OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 ; Search time 139 Seconds  
(without alignments)  
69.576 Million cell updates/sec

Title: US-09-671-089-2

Sequence: 1 KKAANVLLPVLAAAP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Pending\_Patents\_AA\_Maln:\*

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- 3: /cgn2\_6/ptodata/1/paa/US07\_COMB.pap.\*
- 4: /cgn2\_6/ptodata/1/paa/US08\_COMB.pap.\*
- 5: /cgn2\_6/ptodata/1/paa/US09\_COMB.pap.\*
- 6: /cgn2\_6/ptodata/1/paa/US081\_COMB.pap.\*
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- 22: /cgn2\_6/ptodata/1/paa/US097\_COMB.pap.\*
- 23: /cgn2\_6/ptodata/1/paa/US098\_COMB.pap.\*
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- 25: /cgn2\_6/ptodata/1/paa/US100\_COMB.pap.\*
- 26: /cgn2\_6/ptodata/1/paa/US101\_COMB.pap.\*
- 27: /cgn2\_6/ptodata/1/paa/US102\_COMB.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	68	100.0	15	20	US-09-671-089-2
2	68	100.0	15	25	US-10-136-187-2
3	68	100.0	15	25	US-10-136-187-6
4	68	100.0	15	25	US-10-136-187-12
5	68	100.0	15	25	US-10-136-187-13
6	68	100.0	15	25	US-10-136-187-33

7	68	100.0	15	25	US-10-136-187-34	Sequence 34, Appl
8	68	100.0	15	25	US-10-136-187-35	Sequence 35, Appl
9	68	100.0	15	25	US-10-136-187-36	Sequence 36, Appl
10	68	100.0	15	25	US-10-136-187-37	Sequence 37, Appl
11	68	100.0	15	25	US-10-136-187-38	Sequence 38, Appl
12	68	100.0	15	25	US-10-136-187-39	Sequence 39, Appl
13	68	100.0	16	20	US-09-671-089-3	Sequence 3, Appl
14	68	100.0	16	20	US-09-671-089-4	Sequence 4, Appl
15	68	100.0	16	25	US-10-116-275-91	Sequence 48, Appl
16	68	100.0	16	25	US-10-136-187-3	Sequence 91, Appl
17	68	100.0	16	25	US-10-136-187-7	Sequence 7, Appl
18	68	100.0	16	25	US-10-136-187-28	Sequence 3, Appl
19	68	100.0	17	25	US-10-136-187-32	Sequence 28, Appl
20	68	100.0	19	20	US-10-136-187-30	Sequence 32, Appl
21	68	100.0	19	20	US-09-671-089-4	Sequence 30, Appl
22	68	100.0	19	25	US-10-116-275-92	Sequence 4, Appl
23	68	100.0	20	25	US-10-136-187-5	Sequence 92, Appl
24	68	100.0	20	25	US-10-136-187-9	Sequence 5, Appl
25	68	100.0	21	25	US-10-116-275-90	Sequence 9, Appl
26	64	94.1	16	20	US-09-671-089-5	Sequence 90, Appl
27	64	94.1	16	25	US-10-116-275-93	Sequence 93, Appl
28	63	92.6	15	25	US-10-136-187-4	Sequence 5, Appl
29	63	92.6	15	25	US-10-136-187-8	Sequence 8, Appl
30	63	92.6	15	25	US-10-136-187-29	Sequence 29, Appl
31	61	89.7	15	25	US-10-136-187-31	Sequence 8, Appl
32	61	89.7	15	25	US-10-136-187-40	Sequence 31, Appl
33	54	79.4	12	1	PCT-US01-05578-12	Sequence 40, Appl
34	54	79.4	12	1	PCT-US99-07189-1	Sequence 12, Appl
35	54	79.4	12	20	US-09-671-089-1	Sequence 1, Appl
36	54	79.4	12	20	US-09-671-089-14	Sequence 1, Appl
37	54	79.4	12	21	US-09-785-802A-10	Sequence 14, Appl
38	54	79.4	12	21	US-09-789-836-12	Sequence 10, Appl
39	54	79.4	12	21	US-09-792-397-5	Sequence 12, Appl
40	54	79.4	12	23	US-09-997-465B-4	Sequence 5, Appl
41	54	79.4	12	24	US-10-077-555-1	Sequence 4, Appl
42	54	79.4	12	24	US-10-083-889-8	Sequence 1, Appl
43	54	79.4	12	25	US-10-116-275-102	Sequence 8, Appl
44	54	79.4	12	25	US-10-116-288-1	Sequence 102, App
45	54	79.4	12	25	US-10-136-187-1	Sequence 1, Appl

#### ALIGNMENTS

#### RESULT 1

US-09-671-089-2  
; Sequence 2, Application US/09671089  
; GENERAL INFORMATION:  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Lambkin, Imelda J.  
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM  
; FILE REFERENCE: E1067/20018  
; CURRENT APPLICATION NUMBER: US/09/671,089  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR FILING DATE: 1999-09-27  
; NUMBER OF SEQ ID NOS: 59  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: membrane translocating peptide  
; NAME/KEY: MOD\_RES  
; LOCATION: (15)..(15)  
; OTHER INFORMATION: linked to FITC-IC  
; US-09-671-089-2

Query Match 100.0%; Score 68; DB 20; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.0022;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

**QY**

1 KKA<sup>A</sup>VLLPVLLAAP 15  
|||||

**b**

1 KKA<sup>A</sup>VLLPVLLAAP 15

```

RESULT 2
US-10-136-187-2
; Sequence 2, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cummore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US '60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-136-187-2

```

Matches	15;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
---------	-----	--------------	----	------------	----	--------	----	------	----

Query Match	100.08;	Score 68;	DB 25;	Length 15;
Best Local Similarity	100.08;	Pred. No. 0.0023;		
Matches 15;	Conservative	0;	Mismatches	0;
Indels				0;
Gaps				0;
QY	1	KKAAAVLLPVLIAAP	15	
Db	1	KKAAAVLLPVLIAAP	15	

```

: Sequence 6, Application US/10136187
:
: GENERAL INFORMATION:
:
: APPLICANT: Harvie, Pierrot
: APPLICANT: Paul, Ralph
: APPLICANT: Cummore, Sally
: APPLICANT: O'Mahony, Daniel J.
:
: TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
:
: TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
:
: FILE REFERENCE: 226272005300
:
: CURRENT APPLICATION NUMBER: US/10/136,187
:
: CURRENT FILING DATE: 2002-09-13
:
: PRIOR APPLICATION NUMBER: US 60/287,786
:
: PRIOR FILING DATE: 2001-04-30
:
: NUMBER OF SEQ ID NOS: 45
:
: SOFTWARE: FastSeq for Windows Version 4.0
:
: SEQ ID NO: 6
:
: LENGTH: 15
:
: TYPE: PRT
:
: ORGANISM: Artificial Sequence
:
: FEATURE:
:
: OTHER INFORMATION: Synthetic Construct
:
: FEATURE:
:
: NAME/KEY: VARIANT
:
: LOCATION: 1
:
: OTHER INFORMATION: Lysine is attached to galactose
:
: US-10-136-187-6

```

```

Query Match      100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov      1 KKAAYLVLEVLAAAP 15

```

```
Db 1 KKA...VLLPVLLAAP 15
|||||
RESULT 6
US-10-136-187-33
; Sequence 33, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
US-10-136-187-33

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKA...VLLPVLLAAP 15
|||||
Db 1 KKA...VLLPVLLAAP 15

RESULT 7
US-10-136-187-34
; Sequence 34, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
US-10-136-187-34

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 KKA...VLLPVLLAAP 15
|||||
Qy 1 KKA...VLLPVLLAAP 15
|||||
Db 1 KKA...VLLPVLLAAP 15
|||||
```

```
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKA...VLLPVLLAAP 15
|||||
Db 1 KKA...VLLPVLLAAP 15
|||||

RESULT 8
US-10-136-187-35
; Sequence 35, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
US-10-136-187-35

Query Match 100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKA...VLLPVLLAAP 15
|||||
Db 1 KKA...VLLPVLLAAP 15
|||||

RESULT 9
US-10-136-187-36
; Sequence 36, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
US-10-136-187-36
```

```
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
US-10-136-187-36
```

```
Query Match      100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Caps 0;
```

```
QY 1 KKAADVLLPVLLAAP 15
    |||||
Db 1 KKAADVLLPVLLAAP 15
```

## RESULT 10

```
US-10-136-187-37
```

```
; Sequence 37, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; PRIOR FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
US-10-136-187-37
```

```
Query Match      100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Caps 0;
```

```
QY 1 KKAADVLLPVLLAAP 15
    |||||
Db 1 KKAADVLLPVLLAAP 15
```

## RESULT 11

```
US-10-136-187-38
```

```
; Sequence 38, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; PRIOR FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
US-10-136-187-38
```

```
Query Match      100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Caps 0;
```

```
QY 1 KKAADVLLPVLLAAP 15
    |||||
Db 1 KKAADVLLPVLLAAP 15
```

## RESULT 12

```
US-10-136-187-39
```

```
; Sequence 39, Application US/10136187
; GENERAL INFORMATION:
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005300
; CURRENT APPLICATION NUMBER: US/10/136,187
; PRIOR FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
US-10-136-187-39
```

```
Query Match      100.0%; Score 68; DB 25; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Caps 0;
```

```
QY 1 KKAADVLLPVLLAAP 15
    |||||
Db 1 KKAADVLLPVLLAAP 15
```

## RESULT 13

```
US-09-671-089-3
```

```
; Sequence 3, Application US/09671089
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; TITLE OF INVENTION: MEMBRANE TRANSLLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: EL067/20018
; CURRENT APPLICATION NUMBER: US/09/671,089
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,246
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
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FEATURE:  
OTHER INFORMATION: membrane translocating peptide  
US-09-671-089-3

Query Match 100.0%; Score 68; DB 20; Length 16;  
Best Local Similarity 100.0%; Pred. No. 0.0024;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15  
IIIIIIIIIIIIIIIIII  
Db 2 KKAVALLPVLLAAP 16

## RESULT 14

US-09-671-089-48

; Sequence 48, Application US/09671089  
; GENERAL INFORMATION:  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Lambkin, Imelda J.  
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM  
; FILE REFERENCE: E1067/20018  
; CURRENT APPLICATION NUMBER: US/09/671,089  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/156,246  
; NUMBER OF SEQ ID NOS: 59  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 48  
; LENGTH: 16  
; TYPE: PPT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: dansylated membrane translocating peptide  
; FEATURE:  
; NAME/KEY: MOD\_RES  
; LOCATION: (1)..(1)  
; OTHER INFORMATION: dansylated  
US-09-671-089-48

Query Match 100.0%; Score 68; DB 20; Length 16;  
Best Local Similarity 100.0%; Pred. No. 0.0024;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15  
IIIIIIIIIIIIIIIIII  
Db 2 KKAVALLPVLLAAP 16

## RESULT 15

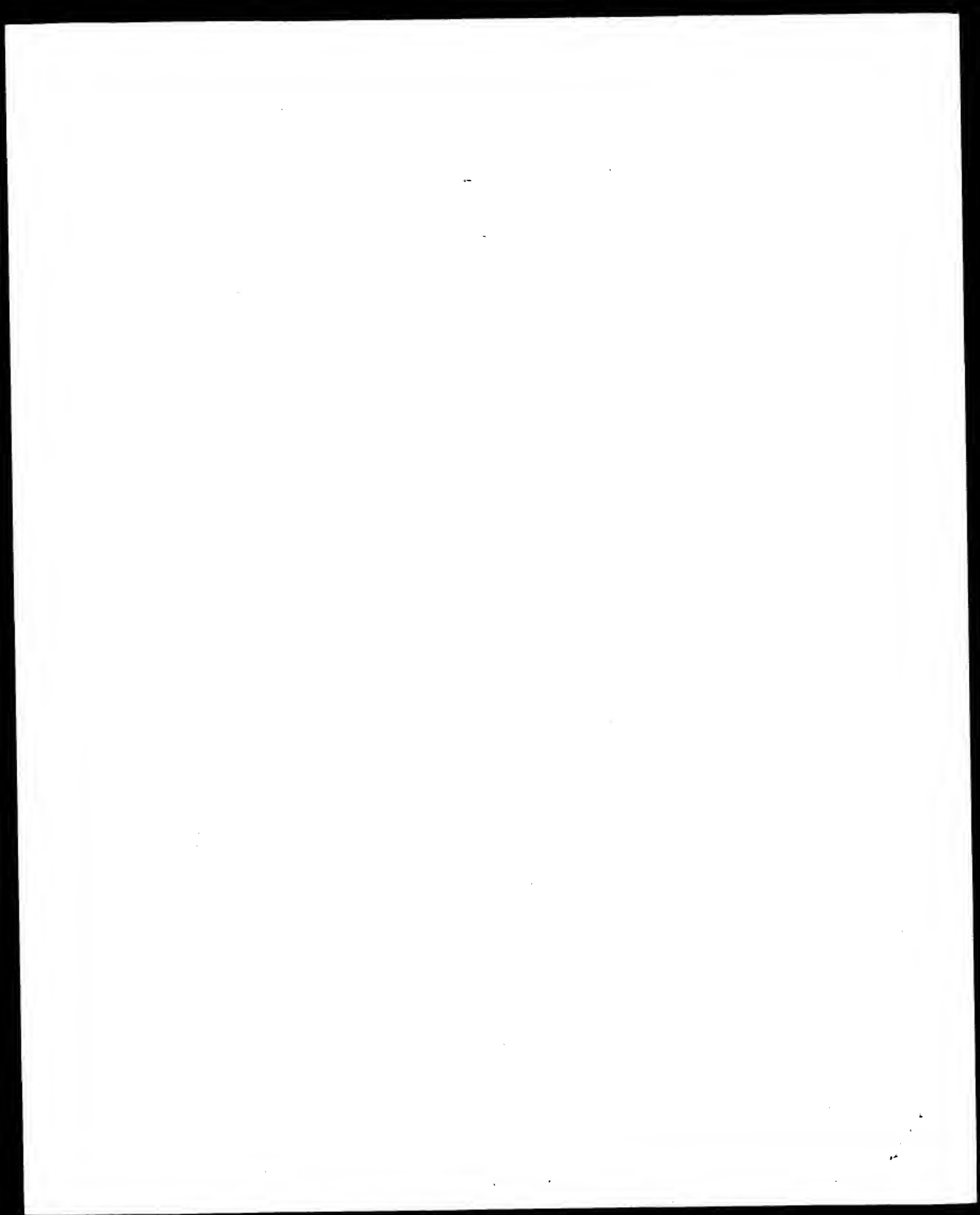
US-10-116-275-91

; Sequence 91, Application US/10116275  
; GENERAL INFORMATION:  
; APPLICANT: Elan Pharmaceutical Technology  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Brayden, David  
; APPLICANT: Byrne, Daraoh  
; APPLICANT: Lambkin, Imelda  
; APPLICANT: Higgins, Lisa  
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and  
; FILE REFERENCE: E1067/20087  
; CURRENT APPLICATION NUMBER: US/10/116,275  
; PRIOR FILING DATE: 2002-10-04  
; NUMBER OF SEQ ID NOS: 349  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 91  
; LENGTH: 16  
; TYPE: PPT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Listed in Table titled "Peptides that Target to and/or Enhance Up  
; OTHER INFORMATION: take Across the GIT"  
US-10-116-275-91

Query Match 100.0%; Score 68; DB 25; Length 16;  
Best Local Similarity 100.0%; Pred. No. 0.0024;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAVALLPVLLAAP 15  
IIIIIIIIIIIIIIIIII  
Db 2 KKAVALLPVLLAAP 16

Search completed: March 5, 2003, 13:51:58  
Job time: 140 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 : Search time 24 Seconds  
(without alignments)  
62.726 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68  
Sequence: 1 KKAVALLPVLLAAP 15

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 516697 seqs, 100361977 residues

Total number of hits satisfying chosen parameters: 516697

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending\_Patents\_AA\_New.\*  
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3: /cgn2\_6/ptodata/1/paa/US07\_NEW\_COMB.pep.\*  
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6: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*  
7: /cgn2\_6/ptodata/1/paa/US60\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	68	100.0	15	1	PCT-US02-13609-2
2	68	100.0	15	1	PCT-US02-13609-6
3	68	100.0	15	1	PCT-US02-13609-12
4	68	100.0	15	1	PCT-US02-13609-13
5	68	100.0	15	1	PCT-US02-13609-33
6	68	100.0	15	1	PCT-US02-13609-34
7	68	100.0	15	1	PCT-US02-13609-35
8	68	100.0	15	1	PCT-US02-13609-36
9	68	100.0	15	1	PCT-US02-13609-37
10	68	100.0	15	1	PCT-US02-13609-38
11	68	100.0	15	1	PCT-US02-13609-39
12	68	100.0	15	6	US-10-126-845-2
13	68	100.0	15	6	US-10-126-845-3
14	68	100.0	15	6	US-10-126-845-60
15	68	100.0	15	6	US-10-126-845-61
16	68	100.0	16	1	PCT-US02-13609-3
17	68	100.0	16	1	PCT-US02-13609-7
18	68	100.0	16	1	PCT-US02-13609-28
19	68	100.0	16	1	PCT-US02-13609-32
20	68	100.0	17	1	PCT-US02-13609-30
21	68	100.0	19	6	US-10-126-845-4
22	68	100.0	19	6	US-10-126-845-4
23	68	100.0	19	6	US-10-126-845-62
24	68	100.0	19	6	US-10-126-845-108
25	68	100.0	20	1	PCT-US02-13609-5
26	68	100.0	20	1	PCT-US02-13609-9

27	68	100.0	20	6	US-10-126-845-106	Sequence 106, App
28	68	100.0	20	6	US-10-126-845-107	Sequence 107, App
29	68	100.0	21	6	US-10-126-845-109	Sequence 109, App
30	68	100.0	21	6	US-10-126-845-111	Sequence 111, App
31	64	94.1	16	6	US-10-126-845-5	Sequence 5, Appl
32	64	94.1	16	6	US-10-126-845-63	Sequence 63, Appl
33	63	92.6	15	1	PCT-US02-13609-4	Sequence 4, Appl
34	63	92.6	15	1	PCT-US02-13609-8	Sequence 8, Appl
35	63	92.6	15	1	PCT-US02-13609-29	Sequence 29, Appl
36	61	89.7	15	1	PCT-US02-13609-31	Sequence 31, Appl
37	61	89.7	15	1	PCT-US02-13609-40	Sequence 40, Appl
38	54	79.4	12	1	PCT-US01-49958A-1	Sequence 1, Appl
39	54	79.4	12	1	PCT-US02-13609-1	Sequence 1, Appl
40	54	79.4	12	1	PCT-US01-49958B-1	Sequence 1, Appl
41	54	79.4	12	6	US-10-126-845-1	Sequence 1, Appl
42	54	79.4	12	6	US-10-126-845-14	Sequence 14, Appl
43	54	79.4	12	6	US-10-126-845-72	Sequence 72, Appl
44	54	79.4	12	6	US-10-211-088-304	Sequence 304, App
45	54	79.4	12	6	US-10-232-410-2	Sequence 2, Appl

#### ALIGNMENTS

RESULT 1  
PCT-US02-13609-2  
; Sequence 2, Application PC/TUS0213609  
; GENERAL INFORMATION:  
; APPLICANT: Targeted Genetics Corporation  
; APPLICANT: Emerald Gene Systems, LTD  
; APPLICANT: Harvie, Pierrot  
; APPLICANT: Paul, Ralph  
; APPLICANT: Paul, Ralph  
; APPLICANT: Cudmore, Sally  
; APPLICANT: O'Mahony, Daniel J.  
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES  
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION  
; FILE REFERENCE: 226272005340  
; CURRENT APPLICATION NUMBER: PCT/US02/13609  
; PRIOR FILING DATE: 2002-04-30  
; PRIOR APPLICATION NUMBER: US 60/287,786  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
PCT-US02-13609-2

Query Match 100.0%; Score 68; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 4.5e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAVALLPVLLAAP 15

DB 1 KKAVALLPVLLAAP 15

#### RESULT 2

PCT-US02-13609-6  
; Sequence 6, Application PC/TUS0213609  
; GENERAL INFORMATION:  
; APPLICANT: Targeted Genetics Corporation  
; APPLICANT: Emerald Gene Systems, LTD  
; APPLICANT: Harvie, Pierrot  
; APPLICANT: Paul, Ralph  
; APPLICANT: Cudmore, Sally  
; APPLICANT: O'Mahony, Daniel J.  
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES  
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION  
; FILE REFERENCE: 226272005340

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; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to galactose
PCT-US02-13609-6

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15

RESULT 3
PCT-US02-13609-12
; Sequence 12, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
PCT-US02-13609-12

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15

RESULT 4
PCT-US02-13609-13
; Sequence 13, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
```

```
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
PCT-US02-13609-13

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15

RESULT 5
PCT-US02-13609-33
; Sequence 33, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
PCT-US02-13609-33

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15
Db 1 KKAARVLLPVLLAAP 15

RESULT 6
PCT-US02-13609-34
; Sequence 34, Application PC/TUS0213609
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; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DOPE-succinyl
PCT-US02-13609-34

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAVALLPVLLAAP 15
DB 1 KKAVALLPVLLAAP 15

RESULT 7
PCT-US02-13609-35
; Sequence 35, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to Cholesteryl-succinyl
PCT-US02-13609-35

Query Match      100.0%; Score 68; DB 1; Length 15;
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```
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAVALLPVLLAAP 15
DB 1 KKAVALLPVLLAAP 15

RESULT 8
PCT-US02-13609-36
; Sequence 36, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
PCT-US02-13609-36

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAVALLPVLLAAP 15
DB 1 KKAVALLPVLLAAP 15

RESULT 9
PCT-US02-13609-37
; Sequence 37, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
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; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
PCT-US02-13609-37

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAGVLLPVLLAAP 15
Db 1 KKAAGVLLPVLLAAP 15

RESULT 10
PCT-US02-13609-38
; Sequence 38, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DSPE-PEG5K-succinyl
PCT-US02-13609-38

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAGVLLPVLLAAP 15
Db 1 KKAAGVLLPVLLAAP 15

RESULT 11
PCT-US02-13609-39
; Sequence 39, Application PC/TUS0213609
; GENERAL INFORMATION:
; APPLICANT: Targeted Genetics Corporation
; APPLICANT: Emerald Gene Systems, LTD
; APPLICANT: Harvie, Pierrot
; APPLICANT: Paul, Ralph
; APPLICANT: Cudmore, Sally
; APPLICANT: O'Mahony, Daniel J.
; TITLE OF INVENTION: LIPID-COMPRISING DRUG DELIVERY COMPLEXES
; TITLE OF INVENTION: AND METHODS FOR THEIR PRODUCTION
; FILE REFERENCE: 226272005340
; CURRENT APPLICATION NUMBER: PCT/US02/13609
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/287,786
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 45
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; NAME/KEY: VARIANT
; LOCATION: 1
; OTHER INFORMATION: Lysine is attached to DMPE-PEG5K-succinyl
PCT-US02-13609-39

Query Match      100.0%; Score 68; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAGVLLPVLLAAP 15
Db 1 KKAAGVLLPVLLAAP 15

RESULT 12
US-10-126-845-2
; Sequence 2, Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: membrane translocating peptide
US-10-126-845-2

Query Match      100.0%; Score 68; DB 6; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KKAAGVLLPVLLAAP 15
Db 1 KKAAGVLLPVLLAAP 15

RESULT 13
US-10-126-845-3
; Sequence 3, Application US/10126845
; GENERAL INFORMATION:
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Lambkin, Imelda J.
; APPLICANT: Pinilla, Clemencia
; APPLICANT: Houghten, Richard
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
; FILE REFERENCE: E1067/20058
; CURRENT APPLICATION NUMBER: US/10/126,845
; CURRENT FILING DATE: 2002-10-15
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 3
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: membrane translocating peptide
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; FEATURE:  
; NAME/KEY: MOD\_RES  
; LOCATION: (15)..(15)  
; OTHER INFORMATION: Linked to FITC-LC  
US-10-126-845-3

Query Match 100.0%; Score 68; DB 6; Length 15;  
Best Local Similarity 100.0%; Pred. No. 4.5e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15  
Db 1 KKAARVLLPVLLAAP 15

RESULT 14  
US-10-126-845-60  
; Sequence 60. Application US/10126845  
; GENERAL INFORMATION:  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Lambkin, Imelda J.  
; APPLICANT: Pinilla, Clemencia  
; APPLICANT: Houghten, Richard  
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM  
; FILE REFERENCE: E1067/20058  
; CURRENT APPLICATION NUMBER: US/10/126,845  
; CURRENT FILING DATE: 2002-10-15  
; NUMBER OF SEQ ID NOS: 119  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 60  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: D form peptide  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: D form amino acid  
US-10-126-845-60

Query Match 100.0%; Score 68; DB 6; Length 15;  
Best Local Similarity 100.0%; Pred. No. 4.5e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15  
Db 1 KKAARVLLPVLLAAP 15

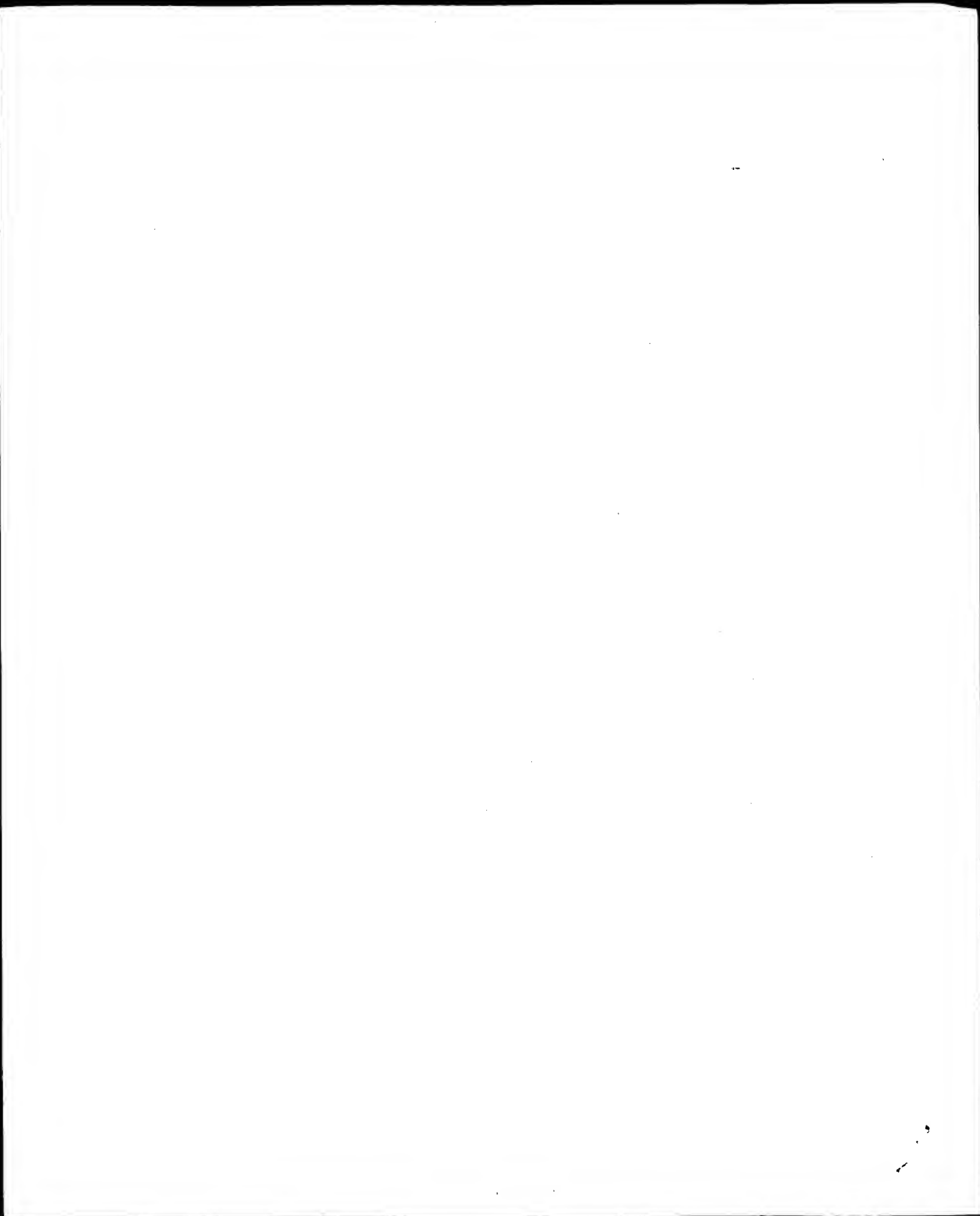
RESULT 15  
US-10-126-845-61  
; Sequence 61. Application US/10126845  
; GENERAL INFORMATION:  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Lambkin, Imelda J.  
; APPLICANT: Pinilla, Clemencia  
; APPLICANT: Houghten, Richard  
; TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM  
; FILE REFERENCE: E1067/20058  
; CURRENT APPLICATION NUMBER: US/10/126,845  
; CURRENT FILING DATE: 2002-10-15  
; NUMBER OF SEQ ID NOS: 119  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 61  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: D form peptide  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)

; OTHER INFORMATION: D form amino acid  
US-10-126-845-61

Query Match 100.0%; Score 68; DB 6; Length 15;  
Best Local Similarity 100.0%; Pred. No. 4.5e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KKAARVLLPVLLAAP 15  
Db 1 KKAARVLLPVLLAAP 15

Search completed: March 5, 2003, 13:52:28  
Job time : 24 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:10 ; Search time 13 Seconds  
(without alignments)  
48.658 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68

Sequence: 1 KRAAVLLPVLLAAP 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 188354 seqs, 42170167 residues

Total number of hits satisfying chosen parameters: 188354

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCIT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/PCITUS\_PUBCOMB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	54	79.4	12	10	US-09-789-836-12
2	54	79.4	12	10	US-09-785-802A-10
3	54	79.4	12	12	US-10-116-288-1
4	54	79.4	386	9	US-09-948-193-1
5	50	73.5	11	12	US-10-116-288-9
6	47	69.1	11	12	US-10-116-288-5
7	46	67.6	10	12	US-10-116-288-8
8	43	63.2	10	12	US-10-116-288-4
9	42	61.8	9	12	US-10-116-288-7
10	40	58.8	582	10	US-09-916-658-4
11	40	58.8	582	10	US-09-801-196-27
12	40	58.8	582	10	US-09-919-497-84
13	40	58.8	1246	10	US-09-919-497-85
14	39	57.4	9	12	US-10-116-288-3
15	39	57.4	308	10	US-09-963-766-6
16	39	57.4	874	10	US-09-963-766-3
17	39	57.4	1386	10	US-09-866-582-38
18	38	55.9	8	12	US-10-116-288-6
19	38	55.9	2802	9	US-09-808-602-81

20	37	54.4	24	9	US-09-759-1308-327	Sequence 327, App
21	37	54.4	353	9	US-09-905-291A-2	Sequence 2, Appl
22	37	54.4	353	9	US-09-902-853-2	Sequence 2, Appl
23	37	54.4	353	9	US-09-907-824-2	Sequence 2, Appl
24	37	54.4	353	9	US-09-907-841-2	Sequence 2, Appl
25	37	54.4	353	9	US-09-904-011-2	Sequence 2, Appl
26	37	54.4	353	9	US-10-028-072-296	Sequence 296, App
27	37	54.4	353	9	US-09-759-1308-326	Sequence 326, App
28	37	54.4	353	9	US-09-906-742-2	Sequence 2, Appl
29	37	54.4	353	9	US-10-121-045-296	Sequence 296, App
30	37	54.4	353	9	US-10-123-904-296	Sequence 296, App
31	37	54.4	353	9	US-10-140-470-296	Sequence 296, App
32	37	54.4	353	9	US-09-906-838-2	Sequence 2, Appl
33	37	54.4	353	9	US-09-907-613-2	Sequence 2, Appl
34	37	54.4	353	9	US-09-907-942-2	Sequence 2, Appl
35	37	54.4	353	9	US-10-175-746-296	Sequence 296, App
36	37	54.4	353	9	US-10-176-918-296	Sequence 296, App
37	37	54.4	353	9	US-10-176-921-296	Sequence 296, App
38	37	54.4	353	9	US-10-137-865-296	Sequence 296, App
39	37	54.4	353	9	US-10-140-474-296	Sequence 296, App
40	37	54.4	353	9	US-09-904-820-2	Sequence 2, Appl
41	37	54.4	353	9	US-09-904-859-2	Sequence 2, Appl
42	37	54.4	353	9	US-09-909-204-2	Sequence 2, Appl
43	37	54.4	353	9	US-10-142-431-296	Sequence 296, App
44	37	54.4	353	9	US-10-143-114-296	Sequence 296, App
45	37	54.4	353	9	US-09-904-786-2	Sequence 2, Appl

#### ALIGNMENTS

RESULT 1

US-09-789-836-12

; Sequence 12, Application US/09789836

; Patent No. US20020082204A1

; GENERAL INFORMATION:

; APPLICANT: BRIGHAM, KENNETH L.

; APPLICANT: STECENKO, ARLENE A.

; APPLICANT: SEALY, LINDA

; TITLE OF INVENTION: TREATMENT OF INFLAMMATION WITH P20

; FILE REFERENCE: N-6977

; CURRENT APPLICATION NUMBER: US/09/789,836

; CURRENT FILING DATE: 2001-02-20

; PRIOR APPLICATION NUMBER: 60/183,584

; PRIOR FILING DATE: 2000-02-18

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 12

; LENGTH: 12

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide

Query Match 79.4% Score 54; DB 10; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0044;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15  
| | | | | | | | | | | | | | | |  
Db 1 AAVLLPVLLAAP 12

RESULT 2

US-09-785-802A-10

; Sequence 10, Application US/09785802A

; Patent No. US20020151004A1

; GENERAL INFORMATION:

; APPLICANT: CRAIG, ROGER

; TITLE OF INVENTION: DELIVERY VEHICLES AND METHODS FOR USING THE SAME

; FILE REFERENCE: 11067/2035

; CURRENT APPLICATION NUMBER: US/09/785,802A

; CURRENT FILING DATE: 2001-02-16  
; PRIOR APPLICATION NUMBER: US 09/748,06  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/748,789  
; PRIOR FILING DATE: 2000-12-22  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 10  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-785-802A-10

Query Match 79.4%; Score 54; DB 10; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0044;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15  
Db 1 AAVLLPVLLAAP 12  
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RESULT 3  
US-10-116-288-1  
; Sequence 1, Application US/10116288  
; Patent No. US20020143142A1  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
; FILE REFERENCE: 22000.0097U3  
; CURRENT APPLICATION NUMBER: US/10/116,288  
; CURRENT FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: 09/562,868  
; PRIOR FILING DATE: 2000-05-01  
; PRIOR APPLICATION NUMBER: 09/186,170  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR APPLICATION NUMBER: 60/080,083  
; PRIOR FILING DATE: 1998-03-31  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
; OTHER INFORMATION: sequence of peptide which transports proteins  
; OTHER INFORMATION: through the cell membrane into the cell.  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(12)  
; PUBLICATION INFORMATION:  
; AUTHORS: Rojas, M. et al.  
; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
; TITLE: Permeability"  
; JOURNAL: Nature Biotechnology  
; VOLUME: 16  
; ISSUE: April  
; PAGES: 370-375  
; DATE: 1998-04-01  
US-10-116-288-1

Query Match 79.4%; Score 54; DB 12; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0044;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15  
Db 1 AAVLLPVLLAAP 12  
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RESULT 4  
US-09-948-193-1  
; Sequence 1, Application US/09948193  
; Publication No. US20030027335A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruley, H. Earl  
; APPLICANT: Jo, Daewoong  
; TITLE OF INVENTION: Genome Engineering by Cell-Permeable DNA  
; TITLE OF INVENTION: Site-Specific Recombinases  
; FILE REFERENCE: 22000.0109U2  
; CURRENT APPLICATION NUMBER: US/09/948,193  
; CURRENT FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: 60/230,690  
; PRIOR FILING DATE: 2000-09-07  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 386  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description: His6-NLS-Cre-MTS  
US-09-948-193-1

Query Match 79.4%; Score 54; DB 9; Length 386;  
Best Local Similarity 100.0%; Pred. No. 0.19;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLLAAP 15  
Db 374 AAVLLPVLLAAP 385  
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RESULT 5  
US-10-116-288-9  
; Sequence 9, Application US/10116288  
; Patent No. US20020143142A1  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
; FILE REFERENCE: 22000.0097U3  
; CURRENT APPLICATION NUMBER: US/10/116,288  
; CURRENT FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: 09/562,868  
; PRIOR FILING DATE: 2000-05-01  
; PRIOR APPLICATION NUMBER: 09/186,170  
; PRIOR FILING DATE: 1998-11-04  
; PRIOR APPLICATION NUMBER: 60/080,083  
; PRIOR FILING DATE: 1998-03-31  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 9  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
; OTHER INFORMATION: sequence of peptide which transports proteins  
; OTHER INFORMATION: through the cell membrane into the cell.  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(11)  
; PUBLICATION INFORMATION:  
; AUTHORS: Rojas, M. et al.  
; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
; TITLE: Permeability"  
; JOURNAL: Nature Biotechnology

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; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-9

Query Match      73.5%; Score 50; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 AVLLPVLLAAP 15
   | | | | | | | | | |
Db 1 AVLLPVLLAAP 11

RESULT 6
US-10-116-288-5
; Sequence 5, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116,288
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-5

Query Match      69.1%; Score 47; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 AAVLLPVLLAA 14
   | | | | | | | | | |
Db 1 AAVLLPVLLAA 11

RESULT 7
US-10-116-288-8
; Sequence 8, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116,288
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-10-116-288-5

Query Match      67.5%; Score 46; DB 12; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 VLLPVLLAAP 15
   | | | | | | | | | |
Db 1 VLLPVLLAAP 10

RESULT 8
US-10-116-288-4
; Sequence 4, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116,288
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 10
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(10)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: "Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-10-116-288-4

Query Match      63.2%; Score 43; DB 12; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

Qy      4 AAVLLPVLLA 13
      |||||
Db      1 AAVLLPVLLA 10

RESULT 9
US-10-116-288-7
; Sequence 7, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116.288
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562.868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186.170
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/080.083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(9)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: "Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-10-116-288-7

Query Match      61.8%; Score 42; DB 12; Length 9;
Best Local Similarity 100.0%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

Qy      4 AAVLLPVLLA 13
      |||||
Db      1 AAVLLPVLLA 10

US-09-916-658-4
; Sequence 4, Application US/09916658
; Patent No. US20020025510A1
; GENERAL INFORMATION:
; APPLICANT: Strongin, Alex Y.
; APPLICANT: Deryugina, Elena I.
; TITLE OF INVENTION: Screening Methods Based On
; TITLE OF INVENTION: Superactivated Alpha v Beta 3 Integrin
; FILE REFERENCE: P-LJ 4811
; CURRENT APPLICATION NUMBER: US/09/916.658
; CURRENT FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: US 60/220.706
; PRIOR FILING DATE: 2000-07-26
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-916-658-4

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 AAVALPVL 12
      |||||
Db      539 AAVALPVL 548

RESULT 11
US-09-801-196-27
; Sequence 27, Application US/09801196
; Patent No. US20020037827A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Kai
; APPLICANT: Smith, Ryan
; APPLICANT: Fajardo, Mark
; APPLICANT: Moss, Patrick
; TITLE OF INVENTION: A NOVEL MATRIX METALLOPROTEINASE (MMP-25)
; TITLE OF INVENTION: EXPRESSED IN SKIN CELLS
; FILE REFERENCE: 240083.509
; CURRENT APPLICATION NUMBER: US/09/801.196
; CURRENT FILING DATE: 2001-03-06
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-801-196-27

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 AAVALPVL 12
      |||||
Db      539 AAVALPVL 548

RESULT 12
US-09-919-497-84
; Sequence 84, Application US/09919497
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; Patent No. US2002010662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT APPLICATION NUMBER: US/09/919,497
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/221,735
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 84
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-919-497-84

Query Match      58.8%; Score 40; DB 10; Length 582;
Best Local Similarity 90.0%; Pred. No. 55;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 3 AAVALLPVLL 12
Db 539 AAVALPVL 548

RESULT 13
US-09-919-497-85
; Sequence 85, Application US/09919497
; Patent No. US2002010662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT APPLICATION NUMBER: US/09/919,497
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/221,735
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 85
; LENGTH: 1246
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-919-497-85

Query Match      58.8%; Score 40; DB 10; Length 1246;
Best Local Similarity 72.7%; Pred. No. 1.3e+02;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 5 AVLLPVLAAAP 15
Db 15 ALLPVLAAAP 25

RESULT 14
US-10-116-288-3
; Sequence 3, Application US/10116288
; Patent No. US20020143142A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Proteins with Cell Membrane Translocating Activity"
; FILE REFERENCE: 22000.009703
; CURRENT APPLICATION NUMBER: US/10/116,288
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
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; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(9)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-10-116-288-3

Query Match      57.4%; Score 39; DB 12; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 AAVALPVL 12
Db 1 AAVALPVL 9

RESULT 15
US-09-894-018-107
; Sequence 107, Application US/09894018
; Patent No. US20020119127A1
; GENERAL INFORMATION:
; APPLICANT: EPIMUNE, Inc.
; APPLICANT: Sette, Alessandro
; APPLICANT: Chestnut, Robert
; APPLICANT: Livingston, Brian
; APPLICANT: Baker, DenisW
; APPLICANT: Newman, Mark
; APPLICANT: Brown, David
; TITLE OF INVENTION: METHODS AND SYSTEM FOR OPTIMIZING
; FILE REFERENCE: 39963-20033.00
; CURRENT APPLICATION NUMBER: US/09/894,018
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: PCT/US00/35568
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/173,390
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: US 60/284,221
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 368
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 308
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV.4312(1P)
; US-09-894-018-107

Query Match      57.4%; Score 39; DB 10; Length 308;
Best Local Similarity 71.4%; Pred. No. 40;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 1 KKAVALPVLAA 14
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Db 242 KKAVALVGGVLA 255  
|||||: |||

Search completed: March 5, 2003, 13:52:48  
Job time : 14 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 5, 2003, 13:49:09 ; Search time 14 seconds  
(without alignments)  
31.525 Million cell updates/sec

Title: US-09-671-089-2

Perfect score: 68

Sequence: 1 KKAAYLLPVLAAAP 15

Scoring table: BLQSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*  
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5: /cgn2\_6/ptodata/1/1aa/PTBUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/BACKFILES.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	54	79.4	12	4	US-09-186-170-1
2	54	79.4	12	4	US-09-562-868-1
3	50	73.5	11	4	US-09-186-170-9
4	50	73.5	11	4	US-09-562-868-9
5	47	69.1	11	4	US-09-186-170-5
6	47	69.1	11	4	US-09-562-868-5
7	46	67.6	10	4	US-09-186-170-8
8	46	67.6	10	4	US-09-562-868-8
9	43	63.2	10	4	US-09-186-170-4
10	43	63.2	10	4	US-09-562-868-4
11	42	61.8	9	4	US-09-186-170-7
12	42	61.8	9	4	US-09-562-868-7
13	40	58.8	30	4	US-08-448-489-7
14	40	58.8	30	4	US-08-704-711A-1
15	40	58.8	579	3	US-09-521-220-1
16	40	58.8	582	3	US-08-704-711A-2
17	40	58.8	582	4	US-08-448-489-1
18	40	58.8	582	4	US-09-211-704A-9
19	40	58.8	582	4	US-09-521-220-2
20	40	58.8	582	4	US-09-391-104-28
21	39	57.4	9	4	US-09-186-170-3
22	39	57.4	9	4	US-09-562-868-3
23	39	57.4	551	4	US-09-134-001C-5001
24	38	55.9	8	4	US-09-186-170-6
25	38	55.9	8	4	US-09-562-868-6
26	38	55.9	323	3	US-09-041-889-28
27	38	55.9	377	3	US-09-041-889-29

28	37	54.4	388	2	US-08-382-505-2	Sequence 2, Appl
29	37	54.4	702	4	US-09-232-200-102	Sequence 102, App
30	37	54.4	702	4	US-09-232-197-102	Sequence 102, App
31	37	54.4	702	4	US-09-232-201-102	Sequence 102, App
32	36	52.9	26	2	US-08-928-958-2	Sequence 2, Appl
33	36	52.9	26	2	US-09-072-429-2	Sequence 2, Appl
34	36	52.9	62	2	US-08-530-5698-21	Sequence 21, Appl
35	36	52.9	122	4	US-08-958-207A-321	Sequence 321, App
36	35	51.5	8	4	US-09-186-170-2	Sequence 2, Appl
37	35	51.5	8	4	US-09-562-868-2	Sequence 2, Appl
38	35	51.5	136	2	US-08-675-508-5	Sequence 5, Appl
39	35	51.5	138	4	US-08-746-397-11	Sequence 11, Appl
40	35	51.5	1319	2	US-08-290-731C-2	Sequence 2, Appl
41	35	51.5	1333	3	US-09-356-952-2	Sequence 2, Appl
42	35	51.5	1336	2	US-08-290-731C-6	Sequence 6, Appl
43	34	50.0	21	2	US-08-472-172-10	Sequence 10, Appl
44	34	50.0	27	2	US-08-928-958-3	Sequence 3, Appl
45	34	50.0	27	2	US-09-072-429-3	Sequence 3, Appl

## ALIGNMENTS

RESULT 1  
US-09-186-170-1  
; Sequence 1, Application US/09186170  
; Patent No. 6248558  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; Patent No. 6248558  
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
; FILE REFERENCE: VU9841  
; CURRENT APPLICATION NUMBER: US/09/186,170  
; EARLIER FILING DATE: 1998-11-04  
; EARLIER APPLICATION NUMBER: 60/080,083  
; EARLIER FILING DATE: 1998-03-31  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
; OTHER INFORMATION: sequence of peptide which transports proteins  
; OTHER INFORMATION: through the cell membrane into the cell.  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(12)  
; PUBLICATION INFORMATION:  
; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
; TITLE: Permeability"  
; JOURNAL: Nature Biotechnology  
; VOLUME: 16  
; ISSUE: April  
; PAGES: 370-375  
; DATE: 1998-04-01  
; RELEVANT RESIDUES: 1 TO 12  
US-09-186-170-1

Query Match 79.4%; Score 54; DB 4; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0044;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLAAAP 15  
DB 1 AAVLLPVLAAAP 12

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RESULT 2
US-09-562-868-1
; Sequence 1, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Proteins with Cell Membrane Translocating Activity"
; Patent No. 6432680
; FILE REFERENCE: 22000.009702
; CURRENT APPLICATION NUMBER: US/09/562,868
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(12)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; US-09-562-868-1

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Query Match 79.4%; Score 54; DB 4; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 4 AAVLLPVLLAAP 15
|||||
DB 1 AAVLLPVLLAAP 12

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RESULT 3
US-09-186-170-9
; Sequence 9, Application US/09186170
; Patent No. 6248558
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Proteins with Cell Membrane Translocating Activity"
; Patent No. 6248558
; FILE REFERENCE: VU9841
; CURRENT APPLICATION NUMBER: US/09/186,170
; CURRENT FILING DATE: 1998-11-04
; EARLIER APPLICATION NUMBER: 60/080,083
; EARLIER FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
; RELEVANT RESIDUES: 1 TO 12
US-09-186-170-9

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Query Match 73.5%; Score 50; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 5 AAVLLPVLLAAP 15
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DB 1 AAVLLPVLLAAP 11

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RESULT 4
US-09-562-868-9
; Sequence 9, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Proteins with Cell Membrane Translocating Activity"
; Patent No. 6432680
; FILE REFERENCE: 22000.009702
; CURRENT APPLICATION NUMBER: US/09/562,868
; CURRENT FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-9

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Query Match 73.5%; Score 50; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 5 AAVLLPVLLAAP 15
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DB 1 AAVLLPVLLAAP 11

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RESULT 4
US-09-562-868-9
; Sequence 9, Application US/09562868
; Patent No. 6432680
; GENERAL INFORMATION:
; APPLICANT: Lin, Yao-Zhong
; APPLICANT: Donahue, John P.
; APPLICANT: Rojas, Mauricio
; APPLICANT: Tan, Zhongjia
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
; Proteins with Cell Membrane Translocating Activity"
; Patent No. 6432680
; FILE REFERENCE: 22000.009702
; CURRENT APPLICATION NUMBER: US/09/562,868
; CURRENT FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/080,083
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 09/186,170
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid
; OTHER INFORMATION: sequence of peptide which transports proteins
; OTHER INFORMATION: through the cell membrane into the cell.
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(11)
; PUBLICATION INFORMATION:
; AUTHORS: Rojas, M. et al.
; TITLE: "Genetic Engineering of Proteins with Cell Membrane
; TITLE: Permeability"
; JOURNAL: Nature Biotechnology
; VOLUME: 16
; ISSUE: April
; PAGES: 370-375
; DATE: 1998-04-01
US-09-562-868-9

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Query Match 73.5%; Score 50; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-09-186-170-8

Query Match 67.6%; Score 46; DB 4; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.074;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VLLPVLAAAP 15  
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DB 1 VLLPVLAAAP 10

## RESULT 8

US-09-562-868-8  
; Sequence 8, Application US/09562868  
; Patent No. 6432680  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; Proteins with Cell Membrane Translocating Activity"  
; FILE REFERENCE: 22000.0097U2  
; CURRENT APPLICATION NUMBER: US/09/562,868  
; PRIOR FILING DATE: 2000-05-01  
; PRIOR APPLICATION NUMBER: 60/080,083  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 09/186,170  
; PRIOR FILING DATE: 1998-11-04  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
; OTHER INFORMATION: sequence of peptide which transports proteins  
; OTHER INFORMATION: through the cell membrane into the cell.  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(10)  
; PUBLICATION INFORMATION:  
; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
; Translocating Activity"  
; JOURNAL: Nature Biotechnology  
; VOLUME: 16  
; ISSUE: April  
; PAGES: 370-375  
; DATE: 1998-04-01  
; RELEVANT RESIDUES: 1 TO 12  
; US-09-186-170-4

Query Match 63.2%; Score 43; DB 4; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.23;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 AAVLLPVLAA 13  
| | | | | | | | | |  
DB 1 AAVLLPVLAA 10

## RESULT 10

US-09-562-868-4  
; Sequence 4, Application US/09562868  
; Patent No. 6432680  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; Proteins with Cell Membrane Translocating Activity"  
; Patent No. 6432680  
; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
; FILE REFERENCE: 22000.0097U2  
; CURRENT APPLICATION NUMBER: US/09/562,868  
; CURRENT FILING DATE: 2000-05-01  
; PRIOR APPLICATION NUMBER: 60/080,083  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: 09/186,170  
; PRIOR FILING DATE: 1998-11-04  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
; OTHER INFORMATION: sequence of peptide which transports proteins  
; OTHER INFORMATION: through the cell membrane into the cell.  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(10)  
; PUBLICATION INFORMATION:  
; AUTHORS: Rojas, M. et al.  
; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
; Translocating Activity"  
; JOURNAL: Nature Biotechnology  
; VOLUME: 16  
; ISSUE: April  
; PAGES: 370-375  
; DATE: 1998-04-01  
; US-09-562-868-8

Query Match 67.6%; Score 46; DB 4; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.074;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 VLLPVLAAAP 15  
| | | | | | | | | |  
DB 1 VLLPVLAAAP 10

## RESULT 9

US-09-186-170-4  
; Sequence 4, Application US/09186170  
; Patent No. 6248558  
; GENERAL INFORMATION:  
; APPLICANT: Lin, Yao-Zhong  
; APPLICANT: Donahue, John P.  
; APPLICANT: Rojas, Mauricio  
; APPLICANT: Tan, Zhongjia  
; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
; Proteins with Cell Membrane Translocating Activity"  
; Patent No. 6248558

; TITLE: Permeability"  
 ; JOURNAL: Nature Biotechnology  
 ; VOLUME: 16  
 ; ISSUE: April  
 ; PAGES: 370-375  
 ; DATE: 1998-04-01  
 ; US-09-562-868-4

Query Match 63.2%; Score 43; DB 4; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 0.23;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 AAVLLPVLLA 13  
 Db 1 AAVLLPVLLA 10

RESULT 11  
 US-09-186-170-7  
 ; Sequence 7, Application US/09186170  
 ; Patent No. 6248558  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lin, Yao-Zhong  
 ; APPLICANT: Donahue, John P.  
 ; APPLICANT: Rojas, Mauricio  
 ; APPLICANT: Tan, Zhongjia  
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
 ; Proteins with Cell Membrane Translocating Activity"  
 ; Patent No. 6248558  
 ; TITLE OF INVENTION: Proteins with Cell Membrane  
 ; FILE REFERENCE: WU9841  
 ; CURRENT APPLICATION NUMBER: US/09/186,170  
 ; CURRENT FILING DATE: 1998-11-04  
 ; EARLIER APPLICATION NUMBER: 60/080,083  
 ; DATE: 1998-03-31  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 9  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
 ; OTHER INFORMATION: sequence of peptide which transports proteins  
 ; OTHER INFORMATION: through the cell membrane into the cell.  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)..(9)  
 ; PUBLICATION INFORMATION:  
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
 ; TITLE: Permeability"  
 ; JOURNAL: Nature Biotechnology  
 ; VOLUME: 16  
 ; ISSUE: April  
 ; PAGES: 370-375  
 ; DATE: 1998-04-01  
 ; RELEVANT RESIDUES: 1 TO 12  
 ; US-09-186-170-7

Query Match 61.8%; Score 42; DB 4; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 LLPVLLAAP 15  
 Db 1 LLPVLLAAP 9

RESULT 12  
 US-09-562-868-7  
 ; Sequence 7, Application US/09562868  
 ; Patent No. 6432680  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lin, Yao-Zhong

; APPLICANT: Donahue, John P.  
 ; APPLICANT: Rojas, Mauricio  
 ; APPLICANT: Tan, Zhongjia  
 ; TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
 ; Proteins with Cell Membrane Translocating Activity"  
 ; Patent No. 6432680  
 ; TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
 ; FILE REFERENCE: 22000.009702  
 ; CURRENT APPLICATION NUMBER: US/09/562,868  
 ; CURRENT FILING DATE: 2000-05-01  
 ; PRIOR APPLICATION NUMBER: 60/080,083  
 ; PRIOR FILING DATE: 1998-03-31  
 ; PRIOR APPLICATION NUMBER: 09/186,170  
 ; PRIOR FILING DATE: 1998-11-04  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 9  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Amino acid  
 ; OTHER INFORMATION: sequence of peptide which transports proteins  
 ; OTHER INFORMATION: through the cell membrane into the cell.  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)..(9)  
 ; PUBLICATION INFORMATION:  
 ; AUTHORS: Rojas, M. et al.  
 ; TITLE: "Genetic Engineering of Proteins with Cell Membrane  
 ; TITLE: Permeability"  
 ; JOURNAL: Nature Biotechnology  
 ; VOLUME: 16  
 ; ISSUE: April  
 ; PAGES: 370-375  
 ; DATE: 1998-04-01  
 ; US-09-562-868-7

Query Match 61.8%; Score 42; DB 4; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 LLPVLLAAP 15  
 Db 1 LLPVLLAAP 9

RESULT 13  
 US-08-448-489-7  
 ; Sequence 7, Application US/08448489  
 ; Patent No. 6184022  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SEIKI, Motoharu  
 ; APPLICANT: SATO, Hiroshi  
 ; APPLICANT: SHINAGAWA, Akira  
 ; TITLE OF INVENTION: NOVEL METALLOPROTEINASE AND ENCODING DNA THEREFOR  
 ; FILE REFERENCE: 55-290P  
 ; CURRENT APPLICATION NUMBER: US/08/448,489  
 ; CURRENT FILING DATE: 1995-06-07  
 ; NUMBER OF SEQ ID NOS: 19  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 30  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-08-448-489-7

Query Match 58.8%; Score 40; DB 4; Length 30;  
 Best Local Similarity 90.0%; Pred. No. 2.2;  
 Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAAVLLPVLL 12  
 Db 7 AAAVLLPVLL 16

us-09-671-089-2.ra1

Fri Mar 7 09:41:16 2003

STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/521,220  
FILING DATE: 08-Mar-2000  
CLASSIFICATION: <Unknown>  
21-OCT-1994  
17-MAR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/704,711  
FILING DATE: <Unknown>  
APPLICATION NUMBER: DE 4438838.1  
FILING DATE: 21-OCT-1994  
APPLICATION NUMBER: DE 4409663.1  
FILING DATE: 17-MAR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: GRANADOS, Patricia D.  
REGISTRATION NUMBER: 33,683  
REFERENCE/DOCKET NUMBER: 26083/124  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 579 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-521-220-1  
Query Match 58.8%; Score 40; DB 4; Length 579;  
Best Local Similarity 90.0%; Pred. No. 48;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 3 AAAYLLPVLL 12  
Db 536 AAAYLLPVLL 545  
Search completed: March 5, 2003, 13:49:33  
Job time : 15 secs

RESULT 14  
US-08-704-711A-1  
Sequence 1, Application US/08704711A  
Patent No. 6114159  
GENERAL INFORMATION:  
APPLICANT: WILL, Horst  
APPLICANT: HINZMANN, Bernd  
TITLE OF INVENTION: DNA SEQUENCES FOR MATRIX  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/704,711A  
FILING DATE: 20-NOV-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/DE95/00357  
FILING DATE: 17-MAR-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: DE 4438838.1  
FILING DATE: 21-OCT-1994  
APPLICATION NUMBER: DE 4409663.1  
FILING DATE: 17-MAR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: GRANADOS, Patricia D.  
REGISTRATION NUMBER: 33,683  
REFERENCE/DOCKET NUMBER: 26083/124  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 579 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-704-711A-1  
Query Match 58.8%; Score 40; DB 3; Length 579;  
Best Local Similarity 90.0%; Pred. No. 48;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 3 AAAYLLPVLL 12  
Db 536 AAAYLLPVLL 545  
RESULT 15  
US-09-521-220-1  
Sequence 1, Application US/09521220  
Patent No. 639348  
GENERAL INFORMATION:  
APPLICANT: WILL, Horst  
APPLICANT: HINZMANN, Bernd  
TITLE OF INVENTION: DNA SEQUENCES FOR MATRIX  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner